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Patent Abstracts of Japan

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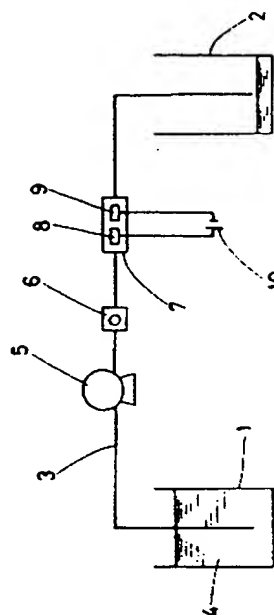
APPLICATION DATE : 25-01-84  
APPLICATION NUMBER : 59012405

APPLICANT : MATSUSHITA ELECTRIC WORKS LTD;

INVENTOR : KOBAYASHI YOSHIKI;

INT.CL. : G01N 27/38 // C12Q 1/00

TITLE : MEASUREMENT USING BIOSENSOR



ABSTRACT : PURPOSE: To extend the life of a biosensor by applying an opposite potential to an electrode of the biosensor having a physiologically active substance immobilized during the measuring operation of an object to be inspected in a measurement to remove a matter eventually adsorbed on the electrode.

CONSTITUTION: A solvent 4 in a solvent reservoir 1 runs through a tube 3 with a pump 5, a certain voltage is applied to a working electrode 8 and an opposed electrode 9 from a power source 10 and then, a sample is injected into an inlet 6. Current value obtained by measuring the magnitude of the current flowing between the working electrode 8 and the opposed electrode 9 corresponds to the mass of an object to be inspected. When a potential is applied to the working electrode, substance other than substances to be inspected in the sample is adsorbed on a film having a physiologically active substance immobilized to reduce the sensitivity gradually. To counter this, an opposite potential to that during the measuring operation is applied to the working electrode 8 and the opposed electrode 9 running a liquid such as solvent through the tube 3 between the measuring operations to remove matter adsorbed during the measuring operation thereby extending the life of a biosensor.

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